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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

NGUYEN, TU X

ART UNIT PAPER NUMBER

2684

DATE MAILED: 04/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/996,764

Applicant(s)

HONG ET AL.

Examiner

Tu X Nguyen

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 November 2001.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-43 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) 2 and 9 is/are allowed.
- 6) ☒ Claim(s) 1,3,4,6-8,10,11,13-15,17,18,22-25 and 31-43 is/are rejected.
- 7) ☒ Claim(s) 5,12,16,19-21 and 26-30 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. Applicant's arguments with respect to claims 1-43 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 3-4, 6-8, 10-11, 13-15, 17-18, 22-25 and 31-43, are rejected under 35 U.S.C. 103(a) as being unpatentable over Sawada et al. (US Pub. 2001/0021663) in view of Cooper (US Patent 5,771,448).

Regarding claims 1, 8, 15 and 22, Sawada et al. disclose an electronic apparatus comprising:

an electronic device including a body (1, fig.1); and

a battery (2, fig.1-4) coupled to the body to supply current to said electronic device (see par.0002),

wherein said battery includes a memory unit having a built-in main memory (see 42, 43 fig.8,) and a detachable auxiliary memory (see par.044).

Sawada et al. fail to disclose store data in the built-in main memory and the detachable auxiliary memory.

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Cooper discloses store data in the built-in main memory and the detachable auxiliary memory (see col.5 lines 45-50). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Sawada with the above teaching of Cooper in order to integrating between two controllers and to read and write to multiple memories.

Regarding claims 3, 10, 19, 25, the modified Sawada et al. disclose a communication port to connect the memory unit to another device to exchange information with the another device" (see Cooper, col.6 lines 30-34).

Regarding dependent claims 4 and 11, the modified Sawada et al. disclose the secondary communication port is installed to slide so that a free end of the secondary communication port protrudes from said battery to connect to another device (see Cooper 30, fig.2).

Regarding claims 6, 13 and 18, the modified Sawada et al. disclose the main memory is detachable from the memory unit (see Sawada, par.0044).

Regarding claims 7 and 14 the modified Sawada et al. disclose the main memory is one of a memory chip, and the auxiliary memory is the other of the memory chip and the memory card (see par.004).

Regarding claim 15, the modified Sawada et al. disclose everything as claim 1 above. More specifically, the modified Sawada et al. disclose removable and built in memory units (see Sawada, 42, 43, 3 fig.8 and par.0044).

Regarding claim 16, 23-24, Sawada et al. disclose one of the memory units is detachable form said battery (see Sawada, 3, fig.1, par.0040-0041).

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Regarding claim 17, the modified Sawada et al. disclose said electronic device retrieves data over a network and stores the retrieved data in the built in memory unit (see Cooper, col.5 lines 21-45). The modified Sawada et al. do not mention about retrieves data over a network. However the retrieves data from a mobile device or a computer which links to network is well known in the art. Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made that the cellular phone or a computer is link to a network such as a base station or LAN computer network respectively.

Regarding claim 18, Sawada et al. disclose said electronic device is one of a portable phone, a personal digital assistant, and a computer (see par.004).

Regarding claim 31, the modified Sawada et al. disclose everything as claim 1 above. More specifically, Sawada et al. disclose forming communication pathway to transfer information between the electronic device and the built in memory unit when the removable memory unit is removed (see Sawada, par.0044, 0048 CPU 31 and 41 reads on communication pathway).

Regarding claim 32, the modified Sawada et al. disclose forming an energy pathway to supply the energy in the battery unit to the electronic apparatus while the communication pathway is formed (see Cooper, 62, 64, fig.3).

Regarding claim 33, the modified Sawada et al. disclose connecting another electronic apparatus to the battery (see Cooper, col.6 lines 30-34); and forming another communication pathway between the another electronic apparatus and the one memory

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unit to transfer information between the one memory unit and the another electronic apparatus (see Cooper, col.6 lines 22-34).

Regarding claims 34-36, the modified Sawada et al. disclose both the electronic apparatus and the another electronic apparatus are connected to the battery at the same time (see col.6 lines 22-34, the battery has two separate connectors. Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made the battery pack are connected to the battery at the same time.

Regarding claims 35-36, Sawada et al. disclose both the electronic apparatus and the another electronic apparatus are not connected to the battery at the same time (see par.0021, 0045, fig.8. The battery pack 22 has it own CPU, DSP and audio device. Therefore, there is no need the present of portable unit 21 in order the battery pack to provide audio playback to the head receiver 4).

Regarding claim 37, Sawada et al. disclose the electronic apparatus and the another electronic apparatus are of the same kind (see Sawada, par.004, since Sawada et al. do not mention battery pack is not being security equipped. Therefore, it is inherently the battery pack is used for any universal mobile phone).

Regarding claim 38, the modified Sawada et al. detaching the battery from the electronic apparatus and connecting the electronic apparatus to another battery (see par.0043).

Regarding claims 39-40, Sawada et al. disclose another battery includes another memory unit (see Sawada, par.0043).

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Regarding claims 41-43, the modified Sawada et al. disclose forming another communication pathway (see Sawada, par.0041) such that a detachable one of the memory units is accessible by the electronic apparatus.

4. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sawada et al. (US Pub. 2001/0021663) in view of Cooper (US Patent 5,771,448) further in view of Van Phuoc et al. (US Patent 5,710,501).

Regarding claim 16, the modified Sawada et al. fail to disclose said electronic device comprises a personal computer.

Van Phuoc et al. disclose said electronic device comprises a personal computer (see col.5 lines 29-30, and col.2 lines 41-52). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of the modified Sawada et al. with the above teaching of Van Phuoc et al. in order to provide a smart battery supply power to a portable computer enable user to select a mode of operation that will enable maximum service life on the battery pack.

Allowable Subject Matter

5. Claims 2 and 9 are allowed.

6. Claims 5, 12, 19-21 and 26-30 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding independent claims 2 and 9, the prior arts fail to teach "a secondary output port to connect to and power a controller of another device", as cited in the claims.

Regarding dependent claims 5 and 12, the prior arts fail to teach "the secondary communication port is disposed to be flipped out from a body of said battery at a predetermined angle", as cited in the claim.

Regarding dependent claims 20-21 and 26-27, the prior arts fail to teach "said battery includes a connector through which a controller of another electronic device is powered by said battery", as cited in the claim.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu Nguyen whose telephone number is 703-305-3427. The examiner can normally be reached on Monday through Friday from 8:30AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MAUNG NAY A, can be reached at (703) 308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Hand-delivered responses should be brought to Crystal Park II, 2121
Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

TN

March 25, 2005


NICK CORSARO
PRIMARY EXAMINER